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PATENT SPECIFICATION



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PROVISIONAL SPECIFICATION.

**Improvements in or relating to Golf Clubs.**

I, EDMUND WILLIAMSON, of Wollaton Park Golf Club, Wollaton Park, Nottingham, a British Subject, do hereby declare the nature of this invention to be as follows:—

5 This invention comprises improvements in or relating to golf clubs, and has more particular reference to wooden clubs, i.e. clubs having wooden heads.

10 It is readily acknowledged by participants in the game of golf that the correct degree and location of weight in the head of a golf club is of considerable consequence and plays an important part in the correct manipulation of the club.

15 Various methods have heretofore been devised of supplementing the weight of a golf club head and distributing said weight in the head. For example, it is well-known to load the head by inserting lead in a recess at the back thereof, but this method has the disadvantage that the loading frequently becomes displaced from its original fixed position due, among other reasons, to the fact that in  
20 the accomplishment of different strokes impact of the ball is made at different positions on the striking face of the head and shocks are consequently transmitted to said loading from various angles.

30 The present invention has for its main object to provide an improved and simplified method of weighting or loading a club head so as to assist in the accurate use of the club and also improve the driving properties thereof.

35 To this end, a golf club according to this invention is provided wherein the weight of the club head is supplemented by fitting a metal or other weighted member at or about a vertical or approximately vertical line or axis at the centre of gravity of the club. Preferably the  
40 supplementary weight comprises a metal plate, disc or the like located at the top and/or sole of the club head, and same may be fixed in position by a pin extending vertical or approximately vertically through the head.

50 In one method of carrying out the invention the wooden head of a golf club, e.g. a driver or spoon, has a hole bored vertically therethrough at or about the

centre of gravity, that is to say, the axis of said hole is located approximately mid-way in the length of the head from heel to toe and in alignment with the longitudinal centre of the club shaft. A

depression or recess is formed in the top face and in the sole of the club head at the two extremities of the vertical bore and in the upper recess is snugly fitted a brass or other metal plate of any suitable or ornamental design, said plate being  
60 securely fixed in position by a screw-threaded pin which is integrally fixed to the underside of said plate or to a depending boss portion thereon and is inserted downwardly through the vertical bore in the head, a nut or internally screw-threaded disc being assembled on the lower end of the screwed pin and tightened up thereon within the lower recess in the head. The thickness of the inserted plate and/or of the securing nut or member can be varied to vary the load at the top and/or sole of the club head to suit existing requirements. The upper face of the inserted plate member is adapted to lie flush with the upper face of the club head, and the securing nut is preferably circular and is fitted within a corresponding circular recess in the sole, said nut being tightened up by providing diametrically opposed perforations therein adapted to be engaged by a suitable turning tool.

It will be appreciated that, whereas in methods of weighting a club head hitherto adopted the location of the weight has been more or less haphazard, the method employed in accordance with this invention enables such weight to be accurately adjusted and allocated to suit the particular type of club and the stroke to be accomplished thereby, it being understood that by increasing the weight of the top plate member relatively to the nut or member at the sole, e.g. by increasing the thickness or size of the plate or employing a plurality thereof, the centre of gravity of the club can be raised in the head, whilst conversely a corresponding increase of the weight at the sole will lower said centre of gravity.

Further, the mode of fixing the weight in the club positively prevents same from

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